612.455.3801

HSML, P.C. (acp)

PAGE 1/9

RECEIVED CENTRAL FAX CENTER

SEP 0 1 2006



HAMRE, SCHUMANN,

AN INTERNATIONAL INTELLECTUAL PROPERTY LAW FIRM

FAX TRANSMISSION

September 1, 2006

TO:

FROM: Douglas P. Mueller

Examiner: JCWS

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

OUR REF: 10873.1761USWO

TELEPHONE: (612) 455.3800

Total pages, including cover letter:

PTO FAX NUMBER: 571.273.8300

If all pages are NOT received, please call us at 612.455.3800 or fax us at 612.455.3801.

Title of Document:

Request for Corrected Filing Receipt

Form PCT/IPEA/409

Applicant:

SASAKI et al.

Serial No.:

10/549,494

App. Filed:

September 15, 2005

Group Art No.: 1722

7729

Conf. No.:

Please charge any additional fees or credit overpayment to Deposit Account No. 50-3478. Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers, if appropriate.

> yglas P. Mueller Name: D

Reg. No.: 30,300

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

Antonette C. Peters

Signature

225 SOUTH SIXTH STREET - SUITE 2650 - MINNEAPOLIS - MN 55402 TEL 612.455.3800 - FAX 612.455.3801 WWW.ISMLCOM - MAILGHSMLCOM

SEP 0 1 2006

S/N 10/549,494

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

09/01/2006 13:39

SASAKI et al.

Serial No.:

10/549,494

Group Art Unit:

1722

Filed:

September 15, 2005

Docket No.:

10873.1761USWO

Title:

METHOD FOR PRODUCING GROUP-III-ELEMENT NITRIDE SINGLE

CRYSTALS AND APPARATUS USED THEREIN

CERTIFICATE UNDER 37 CFR 1.6(d):

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on September 1, 2006.

Antonette C Peters

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Commissioner:

Enclosed is a photocopy of the filing receipt from the United States Patent and Trademark Office in the above-identified application showing requested corrections.

The first inventor's name is incorrect. Please replace [TAKATAMO] with <u>TAKATOMO</u>. The title is incorrect. Please record the title for this application as follows.

METHOD FOR PRODUCING GROUP-III-ELEMENT NITRIDE SINGLE CRYSTALS AND APPARATUS USED THEREIN

This title includes minor editorial changes from the title of the International Publication Page. This editorial amendment mirrors the amendment made in the preliminary amendment, submitted on September 15, 2005.

Correction of the records of the United States Patent and Trademark Office and issuance of a corrected filing receipt are respectfully solicited.

Respectfully submitted,

52835

PATENT TRADEMARK OFFICE

HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. Box 2902

Minneapolis, MN 55402-0902

(612) 455\3800

Dated: September 1, 2006

Bv:

D¥uglas P. Mueller Reg. No. 30,300

DPM/acp

Page 1 of 3



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Tradomark Office Address COMMISSIONER FOR PATENTS da 22313-1450

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'O	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/549.494	09/15/2005	1722	1800	10873.1761USWO	5	38	1

CONFIRMATION NO. 7729

52835 HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402

612,455,3801

FILING RECEIPT OC000000018618419

Date Mailed: 04/27/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Takatamd Sasaki, Suita-shi, JAPAN; Yusuke Mori, Sulta-shi, JAPAN; Masashi Yoshimura, Sulta-shi, JAPAN;

TAKATOMO

Fumio Kawamura, Suita-shi, JAPAN; Hidekazu Umeda, Suita-shi, JAPAN;

Assignment For Published Patent Application

Osaka Industrial Promotion Organization, Osaka-shi, Osaka, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 52835.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/03391 03/15/2004

Foreign Applications

JAPAN 2003-072687 03/17/2003

If Required, Foreign Filing License Granted: 04/25/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, Is US10/549,494

Projected Publication Date: 08/03/2008



612.455.3801

Page 2 of 3

Non-Publication Request: No

Early Publication Request: No

Title

ELEMENT

THEREIN

Method for producing group III nitride single crystal and apparatus used therefor

Preliminary Class

117

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filling of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must Issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filling receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treatles and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-788-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-868-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, If the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

Page 3 of 3

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to esplonage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING UCENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference H2077-01 FOR FURTHER ACTION See Form PCT/IPEA/416				
International Patent Classification (IPC) or national classification and IPC				
International Patent Classification (IPC) or national classification and IPC Applicant OSAKA INDUSTRIAL PROMOTION ORGANIZATION 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
Applicant OSAKA INDUSTRIAL PROMOTION ORGANIZATION 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of				
2. This report consists of a total of				
2. This report consists of a total of				
2. This report consists of a total of				
3. This report is also accompanied by ANNEXES, comprising: a. (sem to the applicant and to the International Bureau) a total of 5 sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or the Administrative Instructions authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) (sent to the International Bureau only) as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). A. This report contains indications relating to the following items:				
a. seem to the applicant and to the International Bureau) a total of				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. Section to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) Containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). A. This report contains indications relating to the following items:				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. I Basis of the report				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. 1 Basis of the report				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. 1 Basis of the report				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. 1 Basis of the report				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. 1 Basis of the report				
Box No. 1 Basis of the report				
Box No. 1 Basis of the report				
1 . 1 Box No. II Priority .				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Roy No. VI. Contain do assessment and				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application				
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application				
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application Date of submission of the demand Date of completion of this report				
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application				
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application Date of submission of the demand Date of completion of this report				

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/003391

Bo	x No. I	Basis of the report				
1.		to the language, this report is based on the internation der this item.	al application in the language in	which it was filed, unless otherwise		
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:						
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4)	•			
		international preliminary examination (Rule 55.2 and/				
2.	receiving O this report):					
	K21	ternational application as originally filed furnished				
		scription:		as originally filed/firmished		
	pages		anning day of it does not on	as originally incommission		
	pages					
	pages		received by this Authority on			
	the ch					
	nos.	1,2,4-7,14-16,20-23,25,28,30,31,37		as originally filed/furnished		
	nos.*			r with any statement) under Article 19		
	nos.*	3,8-13,17-19,24,26,27,29,35	received by this Authority on	19.01.2003		
	aos.*		received by this Authority on			
	Line dr	zgniwe .				
	sheets	1-7		as originally filed/firmished		
	sheets	•	received by this Authority on			
·	sheets	*	received by this Authority on			
	a sequ	nence listing and/or any related table(s) - see Supplemental see Supplemen	ental Box Relating to Sequence L	isting.		
3.	The a	mendments have resulted in the cancellation of:				
		the description, pages				
	\boxtimes	the claims, nos. 32-34, 36, 43-50				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.	This i	report has been established as if (some of) the amenda have been considered to go beyond the disolosure as fil	ments annexed to this report end ed, as indicated in the Supplemen	listed below had not been made, since stal Box (Rule 70.2(c)).		
	. 🖳	the description, pages				
		the claims, nos.				
		the drawings, sheets/figs	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
·		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
	If item 4 an	plies, some or all of those sheets may be marked "supe	rseded."			

Form PCT/IPEA/409 (Box No. I) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/003391

Box	No. V Reasoned statemen					re step or industrial applicability;	
1.	Statement						
	Novelty (N)	Claims	2-31,	35,	37-42		YE
							NO
	Inventive step (IS)	Claims	2-31,	35,	37-42		YE
	Industrial applicability (IA)	Claims	1-31,	35,	37-42		YE
•							
2.	Citations and explanations (Rule					That I C Monah	
		•	068895	A (K	obe Steel	., Ltd.), 8 March	
	20						
			2797 A	(Tos	hiba Corp	poration), 1 July	
	19						
					_	thesis of bulk GaM	N.
		_	_		_	flux", Japanese	
						15 December	
	20	02, Pá	art.2,	Vol.	41, No.	12B, pages 1440	
	to	1442					
	Document 4: JP	2002-	293696	A (J	apan Scie	ence and	
	Te	chnolo	gy Fou	ındat	ion), 9 0	ctober 2002	
	Document 5: JP	2001-	039791	A (J	apan Scie	ence and	
	Te	chnolo	ogy For	ındat	ion), 13	February 2001	
	(1) The inventi	on se	t fort	h in	claim 1	lacks novelty in	
	the light of do	cumen	ts 1 a	nd 2	cited in	the international	l
	search report.						/
	Documents	1 and	2 set	fort	h a metho	od for producing a	a
	nitride single	crvst	al obta	ained	l by mixir	ng a molten	

(2) The inventions set forth in claims 2 to 14, 17 to 28, 35 and 37 to 42 involve an inventive step in relation to

Form PCT/IPEA/409 (Box No. V) (Jamaary 2004)

solution and flux by rotation.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/003391

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that a reaction vessel is shaken, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in documents 1 and 2, wherein molten solution and flux are rotated.

(3) The invention set forth in claims 15 and 16 involves an inventive step in relation to documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that Na and Li are used in flux, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in document 3, wherein a mixed flux of Na and Ca is used.

(4) The invention set forth in claims 29 to 31 involves an inventive step in relation to documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that the material of the beater blades is Y_2O_3 , CaO, MgO or W, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in document 5, wherein beater blades are made from a precious metal.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.